

10/552371

INTERNATIONAL SEARCH REPORT

PCT/GB 03/03291

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 C12N5/06		
According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC 7 A61L C12N		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data base consulted during the International search (name of data base and, where practical, search terms used) EPO-Internal, BIOSIS, EMBASE		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	CROSS WILLIAM R ET AL: "The barrier function of in vitro generated human urothelium" JOURNAL OF UROLOGY, vol. 167, no. 4 Supplement, April 2002 (2002-04), page 32, XP0009025899 & ANNUAL MEETING OF THE AMERICAN UROLOGY ASSOCIATION, INC.; ORLANDO, FLORIDA, USA; MAY 25-30, 2002 ISSN: 0022-5347 abstract	1-3,5, 11,12
Y	----- -/--	6,8-10
<input checked="" type="checkbox"/> Further documents are listed in the continuation of box C. <input type="checkbox"/> Patent family members are listed in annex.		
* Special categories of cited documents : *A* document defining the general state of the art which is not considered to be of particular relevance *E* earlier document but published on or after the international filing date *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) *O* document referring to an oral disclosure, use, exhibition or other means *P* document published prior to the international filing date but later than the priority date claimed *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art *&* document member of the same patent family		
Date of the actual completion of the international search 13 February 2004		Date of mailing of the international search report 01/03/2004
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax (+31-70) 340-3016		Authorized officer Rutz, B

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	CROSS W R ET AL: "The barrier properties of in vitro generated normal human urothelium" BIOCHEMICAL SOCIETY TRANSACTIONS, vol. 30, no. 1, 2002, page A44, XP0009025900 & 675TH MEETING OF THE BIOCHEMICAL SOCIETY JOINT WITH THE PHYSIOLOGICAL SOCIETY; YORK, ENGLAND, UK; DECEMBER 18-19, 2001 ISSN: 0300-5127 abstract	1-3,5, 11,12
X	TRUSCHEL STEVEN T ET AL: "Primary uroepithelial cultures: A model system to analyze umbrella cell barrier function" JOURNAL OF BIOLOGICAL CHEMISTRY, vol. 274, no. 21, 21 May 1999 (1999-05-21), pages 15020-15029, XP002270267 & ISSN: 0021-9258 the whole document	12
Y	LIEBERT MONICA ET AL: "Expression of mal is associated with urothelial differentiation in vitro: identification by differential display reverse-transcriptase polymerase chain reaction" DIFFERENTIATION, vol. 61, no. 3, 1997, pages 177-185, XP0009025896 & ISSN: 0301-4681 page 178, paragraph 3 page 180, paragraph 1 - page 181, left-hand column, paragraph 2 page 183, right-hand column, paragraph 1 page 184, right-hand column	6,9
Y	SOUTHGATE J ET AL: "Normal human urothelial cells in vitro: proliferation and induction of stratification." LABORATORY INVESTIGATION; A JOURNAL OF TECHNICAL METHODS AND PATHOLOGY. OCT 1994, vol. 71, no. 4, October 1994 (1994-10), pages 583-594, XP0009025904 ISSN: 0023-6837 the whole document	10

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	KREFT MATEJA ERDANI ET AL: "Antigenic and ultrastructural markers associated with urothelial cytodifferentiation in primary explant outgrowths of mouse bladder" CELL BIOLOGY INTERNATIONAL, vol. 26, no. 1, 2002, pages 63-74, XP002270270 & ISSN: 1065-6995 the whole document	8
A	SCRIVEN S D ET AL: "Urothelial cell transplantation using biodegradable synthetic scaffolds" JOURNAL OF MATERIALS SCIENCE: MATERIALS IN MEDICINE 2001 NETHERLANDS, vol. 12, no. 10-12, 2001, pages 991-996, XP0009025915 ISSN: 0957-4530 the whole document	
A	SUGASI SITA ET AL: "In vitro engineering of human stratified urothelium: Analysis of its morphology and function" JOURNAL OF UROLOGY, vol. 164, no. 3 Part 2 of 2, September 2000 (2000-09), pages 951-957, XP0009025878 & ISSN: 0022-5347 the whole document	
A	LUDWIKOWSKI B ET AL: "The long-term culture of porcine urothelial cells and induction of urothelial stratification" BJU INTERNATIONAL, vol. 84, no. 4, September 1999 (1999-09), pages 507-514, XP002270273 & ISSN: 1464-4096 page 508	
A	PARIENTE J L ET AL: "Cultured differentiated human urothelial cells in the biomaterials field" BIOMATERIALS, vol. 21, no. 8, April 2000 (2000-04), pages 835-839, XP002270274 & ISSN: 0142-9612 the whole document	